Tire Science and Technology
Index to Volumes 10 and 11
1982 and 1983

A

Ahagon, A.: See Hirakawa, H.

Anisotropy
Anisotropy in green strength induced during elastomer processing (Hamed and Song), (10) 3

Annealing
Anisotropy in green strength induced during elastomer processing (Hamed and Song), (10) 3

Asano, K.: See Akasaka, T.

Akasaka, T., Yamazaki, S., and Asano, K.: Buckling behavior of tire breaker structure, (11) 3

Axial forces
Simulation model of tire vibration (Takayama and Yamagishi), (11) 38

B

Belt buckling
Buckling behavior of tire breaker structure (Akasaka, Yamazaki, and Asano), (11) 3

Beringer, C.W., Kwon, Y.D., Prevorsek, D.C., and Causa, A.G.: Mallory tube test: analyses of deformation and heat generation, (10) 23

Bert, C.W.: See Kumar, M.

Breaker buckling
Buckling behavior of tire breaker structure (Akasaka, Yamazaki, and Asano), (11) 3

C

Causa, A.G.: See Beringer, C.W.

Cleat envelopment
Simulation model of tire vibration (Takayama and Yamagishi) (11) 38

Composite structure
Buckling behavior of tire breaker structure (Akasaka, Yamazaki, and Asano), (11) 3

Composite testing
Experimental characterization of cord-rubber composites (Kumar and Bert), (10) 37

Contact patch
Ply and rubber stresses and contact forces for a loaded radial tire (Trinko), (11) 20

Contact pressure
Ply and rubber stresses and contact forces for a loaded radial tire (Trinko), (11) 20

Cords
Mallory tube test: analyses of deformation and heat generation (Beringer, Kwon, Prevorsek, and Causa), (10) 23

Cord loads
Ply and rubber stresses and contact forces for a loaded radial tire (Trinko), (11) 20

Cord-rubber composites
Experimental characterization of cord-rubber composites (Kumar and Bert), (10) 37

Tire Science and Technology
Index to Volumes 10 and 11
1982 and 1983

A

Ahagon, A.: See Hirakawa, H.

Anisotropy
Anisotropy in green strength induced during elastomer processing (Hamed and Song), (10) 3

Annealing
Anisotropy in green strength induced during elastomer processing (Hamed and Song), (10) 3

Asano, K.: See Akasaka, T.

Akasaka, T., Yamazaki, S., and Asano, K.: Buckling behavior of tire breaker structure, (11) 3

Axial forces
Simulation model of tire vibration (Takayama and Yamagishi), (11) 38

B

Belt buckling
Buckling behavior of tire breaker structure (Akasaka, Yamazaki, and Asano), (11) 3

Beringer, C.W., Kwon, Y.D., Prevorsek, D.C., and Causa, A.G.: Mallory tube test: analyses of deformation and heat generation, (10) 23

Bert, C.W.: See Kumar, M.

Breaker buckling
Buckling behavior of tire breaker structure (Akasaka, Yamazaki, and Asano), (11) 3

C

Causa, A.G.: See Beringer, C.W.

Cleat envelopment
Simulation model of tire vibration (Takayama and Yamagishi) (11) 38

Composite structure
Buckling behavior of tire breaker structure (Akasaka, Yamazaki, and Asano), (11) 3

Composite testing
Experimental characterization of cord-rubber composites (Kumar and Bert), (10) 37

Contact patch
Ply and rubber stresses and contact forces for a loaded radial tire (Trinko), (11) 20

Contact pressure
Ply and rubber stresses and contact forces for a loaded radial tire (Trinko), (11) 20

Cords
Mallory tube test: analyses of deformation and heat generation (Beringer, Kwon, Prevorsek, and Causa), (10) 23

Cord loads
Ply and rubber stresses and contact forces for a loaded radial tire (Trinko), (11) 20

Cord-rubber composites
Experimental characterization of cord-rubber composites (Kumar and Bert), (10) 37

Mallory tube test: analyses of deformation and heat generation (Beringer, Kwon, Prevorsek, and Causa), (10) 23

D

Dynamic failure
Mallory tube test: analyses of deformation and heat generation (Beringer, Kwon, Prevorsek, and Causa), (10) 23

E

Elastomer processing
Anisotropy in green strength induced during elastomer processing (Hamed and Song), (10) 3

F

Fatigue of cords
Buckling behavior of the breaker structure (Akasaka, Yamazaki, and Asano), (11) 3

Finite element
A finite element tire model (Tielking), (11) 50
Ply and rubber stresses and contact forces for a loaded radial tire (Trinko), (11) 20

G

Green strength
Anisotropy in green strength induced during elastomer processing (Hamed and Song), (10) 3

H

Hamed, G.R. and Song, J.H.: Anisotropy in green strength induced during elastomer processing, (10) 3

Hirakawa, H. and Ahagon, A.: New process for preparing tire tread compounds having low rolling resistance, (10) 16

Hysteresis
Mallory tube test: analyses of deformation and heat generation, (Beringer, Kwon, Prevorsek, and Causa), (10) 23

K

Kumar, M. and Bert, C.W.: Experimental characterization of cord-rubber composites, (10) 37

Kwon, Y.D.: See Beringer, C.W.

M

Mallory tube test
Mallory tube test: analyses of deformation and heat generation, (Beringer, Kwon, Prevorsek, and Causa), (10) 23

Mixing
New process for preparing tire tread compounds having low rolling resistance, (Hirakawa and Ahagon), (10) 16

Models
A finite element tire model (Tielking), (11) 50
Ply and rubber stresses and contact forces for a loaded radial tire (Trinko), (11) 20

Simulation model of tire vibration (Takayama and Yamagishi), (11) 38

P

Ply stresses
Ply and rubber stresses and contact forces for a loaded radial tire (Trinko), (11) 20

Prevorsek, D.C.: See Beringer, C.W.

Processing
New process for preparing tire tread compounds having low rolling resistance (Hirakawa and Ahagon), (10) 16

R

Racking
Anisotropy in green strength induced during elastomer processing (Hamed and Song), (10) 3

Rolling resistance
New process for preparing tire tread compounds having low rolling resistance (Hirakawa and Ahagon), (10) 16

S

Song, J.H.: See Hamed, G.R.

T

Takayama, M. and Yamagishi, K.: Simulation model of tire vibration, (11) 38

Tielking, J.T.: A finite element tire model, (11) 50

Tire-pavement interaction
A finite element tire model (Tielking), (11) 50

Traction
A finite element tire model (Tielking), (11) 50

Tread compound
New process for preparing tread compounds having low rolling resistance (Hirakawa and Ahagon), (10) 16

Tread wear
New process for preparing tread compounds having low rolling resistance (Hirakawa and Ahagon), (10) 16

Trinko, M.J.: Ply and rubber stresses and contact forces for a loaded radial tire, (11) 20

V

Vibrations
Simulation model of tire vibration (Takayama and Yamagishi), (11) 38

W

Wet skid
New process for preparing tire tread compounds having low rolling resistance (Hirakawa and Ahagon), (10) 16

Y

Yamagishi, Koichi: See Takayama, Masahiro

Yamazaki, S.: See Akasaka, T.